

(19)



Europäisches Patentamt

European Patent Office

Office européen des brevets

(11)



EP 1 168 374 A3

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
08.01.2003 Bulletin 2003/02

(51) Int Cl.7: H01B 7/18, H01B 9/00

(43) Date of publication A2:
02.01.2002 Bulletin 2002/01

(21) Application number: 01115164.4

(22) Date of filing: 22.06.2001

(84) Designated Contracting States:
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU
MC NL PT SE TR
Designated Extension States:
AL LT LV MK RO SI

(30) Priority: 22.06.2000 US 599847

(71) Applicant: W. Brandt Goldsworthy & Associates,
Inc.
Torrance, California 90505 (US)

(72) Inventors:
• Goldsworthy, William Brandt
Torrance, California 90505 (US)
• Korzeniowski, George
Torrance, California 90505 (US)

(74) Representative:
LOUIS, PÖHLAU, LOHRENTZ & SEGETH
Postfach 3055
90014 Nürnberg (DE)

(54) Composite reinforced electrical transmission conductor

(57) A composite reinforced electrical transmission conductor cable primarily designed for transmission of electrical signals, such as data signals, telephone signals of any frequency and electrical power of essentially any voltage. A fiber optic cable may also be carried by the core in a preferred embodiment. A splicing arrangement for securing the ends of the cable together is also provided. The cable is comprised of a reinforced plastic composite component which serves as a load bearing component and an electrically conductive component

which serves for transmission of the electrical signals carried by the cable. In a preferred embodiment, the cable is comprised of a reinforced plastic composite outer load carrying sheath along with an inner highly electrically conductive core. In this way, the sheath provides the necessary strength and the inner core provides for transmission of the electrical signals. In still further embodiments, strips of reinforced plastic composite can be embedded in an electrically conductive cylindrically shaped cable material.

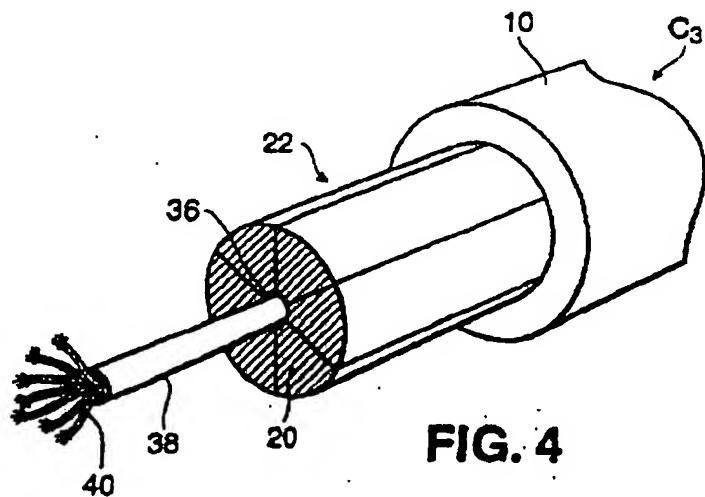


FIG. 4



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 01 11 5164

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
X	EP 0 814 355 A (LUCENT TECHNOLOGIES INC) 29 December 1997 (1997-12-29)	1	H01B7/18 H01B9/00
A	* column 3, line 45 - column 6, line 20; figures 1,2 *	2-13	
X	EP 0 550 784 A (FURUKAWA ELECTRIC CO LTD) 14 July 1993 (1993-07-14)	1	
A	* page 3, line 21 - page 5, line 49; figures 1-5 *	2-13	
A	EP 0 141 931 A (AEG TELEFUNKEN KABELWERKE) 22 May 1985 (1985-05-22)	1-13	
	* page 4, paragraph 1 - page 5, paragraph 1; claims 1-13; figures 1,2 *		
A	US 3 973 385 A (ROE NORMAN P) 10 August 1976 (1976-08-10)	1-13	
	* column 2, line 6 - column 6, line 25; figures 1-7 *		
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			H01B
<p>The present search report has been drawn up for all claims</p>			
Place of search	Date of completion of the search	Examiner	
THE HAGUE	15 November 2002	Demolder, J	
CATEGORY OF CITED DOCUMENTS		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons S : member of the same patent family, corresponding document	
X : particularly relevant II taken alone Y : particularly relevant II combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document			

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 01 11 5164

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on. The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

15-11-2002

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
EP 0814355	A	29-12-1997	US EP JP	5822484 A 0814355 A1 10123383 A	13-10-1998 29-12-1997 15-05-1998
EP 0550784	A	14-07-1993	CA US EP	2058412 A1 5198621 A 0550784 A1	01-07-1993 30-03-1993 14-07-1993
EP 0141931	A	22-05-1985	DE AT DE DE EP FI FI	3330096 A1 44187 T 3348154 C2 3478773 D1 0141931 A2 843268 A ,B, 872512 A ,B,	21-03-1985 15-07-1989 24-03-1988 27-07-1989 22-05-1985 21-02-1985 04-06-1987
US 3973385	A	10-08-1976	US US	4059951 A 4085183 A	29-11-1977 18-04-1978